What is claimed is:

1. 1.   A method of performing packet-based communications in a wireless

2 network, comprising:

3   establishing a connection over a wireless link between a mobile station

4 and a radio access network system;

5   transmitting data in the connection;

6   waiting a predetermined time delay period after end of data transmission;

7 and

8   starting a procedure to release the connection after the predetermined

9 delay period.

1   2.   The method of claim 1, wherein starting the procedure comprises sending

2 an indication that the end of data transmission has occurred.

1   3.   The method of claim 2, wherein sending the indication comprises sending

2 a message containing a flag set to a predetermined state.

1   4.   The method of claim 2, further comprising:

2   receiving an acknowledgement of the indication; and

3   releasing the connection.

1   5.   The method of claim 4, wherein releasing the connection comprises

2 releasing a temporary block flow in a General Packet Radio Service network.

1   6.   The method of claim 4, wherein releasing the connection comprises

2 releasing a logical connection.

1   7.   The method of claim 6, wherein releasing the logical connection

2 comprises releasing one of plural logical connections assigned on a physical channel.

1   8.   The method of claim 1, wherein the waiting and starting acts are

2   performed in the mobile station.

1   9.   The method of claim 1, wherein the waiting and starting acts are

2   performed in the radio access network system.

1   10.   The method of claim 1, further comprising detecting the end of data

2   transmission.

1   11.   The method of claim 10, wherein detecting the end of data transmission

2   comprises detecting a send data buffer not containing data for transmission on the

3   connection.

1   12.   The method of claim 1, further comprising starting a timer to wait the

2   predetermined time period.

1   13.   The method of claim 1, wherein establishing the connection comprises

2   establishing a temporary block flow in a General Packet Radio Service network.

1   14.   A system for communication in a wireless network, comprising:

2   an interface to a wireless link;

3   a control module adapted to establish a connection on the wireless link

4   with a peer system; and

5   a delay element,

6   the control module adapted to further detect end of data transmission on

7   the connection and to wait a delay period provided by the delay element before starting a

8   procedure to release the connection.

1   15.   The system of claim 14, wherein the delay element comprises a timer.

1   16.   The system of claim 14, further comprising a radio link control/medium

2   access control layer comprising the control module.

1   17.   The system of claim 14, wherein the control module is adapted to establish

2   a temporary block flow, the connection comprising the temporary block flow.

1   18.   The system of claim 14, comprising a mobile station.

1   19.   The system of claim 14, comprising a base station system.

1   20.   The system of claim 14, further comprising a send buffer, the control

2   module adapted to detect end of data transmission when the send buffer does not have

3   data for transmission on the connection.

1   21.   The system of claim 14, wherein the control module is adapted to start the

2   procedure to release the connection by sending an indication of the end of data

3   transmission.

1   22.   The system of claim 21, wherein the indication comprises a flag having a

2   predetermined state in a data block.

1   23.   The system of claim 21, wherein the control module is adapted to further

2   wait for an acknowledgment of the indication before releasing the connection.

1   24.   The system of claim 14, wherein the control module is adapted to establish

2   a General Packet Radio Service connection.

1   25.   An article comprising at least one storage medium containing instructions

2   for performing packet-based communications in a wireless network, the instructions

3   when executed causing a first system to:

4   establish a connection between the first system and a peer system over a

5   wireless link; and

6   wait a predetermined time period at the end of data transmission before

7   providing an indication of the end of data transmission.

1   26.   The article of claim 25, wherein the instructions when executed cause the

2   first system to further detect a data buffer being empty, wherein waiting the

3   predetermined time period is performed after detecting the data buffer is empty.

1   27.   The article of claim 26, wherein the instructions when executed cause the

2   first system to detect the data buffer is empty by detecting a radio link control/medium

3   access control send buffer being empty.

1   28.   The article of claim 25, wherein the instructions when executed cause the

2   first system to wait the predetermined time period by starting a timer.

1   29.   The article of claim 28, wherein the instructions when executed cause the

2   first system to start the timer by starting the timer in a mobile station, the first system

3   comprising the mobile station.

1   30.   The article of claim 28, wherein the instructions when executed cause the

2   first system to start the timer by starting the timer in a base station system, the first

3   system comprising the base station system.

1   31.   The article of claim 25, wherein the instructions when executed cause the

2   first system to establish the connection by establishing a temporary block flow.

1   32.   The article of claim 25, wherein the instructions when executed cause the

2   first system to further release the connection in response to the indication.

1   33.   The article of claim 32, wherein the instructions when executed cause the

2   first system to release the connection by releasing a temporary block flow.

1   34.   A first system, comprising:

2   means for establishing a connection over a wireless link with a second

3   system;

4   means for detecting an end of data transmission; and

5   means for waiting a predetermined time period before providing an

6   indication of the end of data transmission.

1   35.   A data signal embodied in a carrier wave and comprising instructions that

2   when executed cause a first system to:

3   detect end of data transmission over a connection established on a wireless

4   link;

5   start a delay period after detecting the end of data transmission; and

6   start a procedure to release the connection after the delay period.